

## Refine Search

### Search Results -

Term	Documents
SEMINAL	6298
SEMINALS	5
PLASMA	444908
PLASMAS	11002
PROTEINS	248400
PROTEIN	385944
(8 AND (SEMINAL ADJ PLASMA ADJ PROTEINS)).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	0
(L8 AND SEMINAL PLASMA PROTEINS).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	0

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L10

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Wednesday, May 04, 2005   [Printable Copy](#)   [Create Case](#)

**Set Name**   **Query**

side by side

**Hit Count**   **Set Name**

result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ*

<u>L10</u>	L8 and seminal plasma proteins	0	<u>L10</u>
<u>L9</u>	L8 and sperm acrosomal membrane associated protein	0	<u>L9</u>
<u>L8</u>	isoantigenic	22	<u>L8</u>
<u>L7</u>	L6	13	<u>L7</u>
<u>L6</u>	L5 and antigen	13	<u>L6</u>

L5 L4 and @py<2000  
L4 seminal plasma proteins  
L3 sperm acrosome associated protein  
L2 SPACA1  
L1 Wo 00/12708

17 L5  
68 L4  
0 L3  
1 L2  
10 L1

END OF SEARCH HISTORY

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LOGINID:SSSPTA1647

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	6	FEB 28	MEDLINE/LMEDLINE reloaded
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NEWS	11	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
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NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	14	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
NEWS	16	APR 18	New CAS Information Use Policies available online
NEWS	17	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	18	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
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FILE 'HOME' ENTERED AT 08:18:36 ON 04 MAY 2005

=> fule caplus

FULE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s isoantigenic

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND  
command can only be used to look at the index in a file which has an  
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commands which can be used in this file.

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 08:19:07 ON 04 MAY 2005

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FILE COVERS 1907 - 4 May 2005 VOL 142 ISS 19

FILE LAST UPDATED: 3 May 2005 (20050503/ED)

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This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> s isoantigenic

L1 42 ISOANTIGENIC

=> sperm acrosomal membrane associated protein

SPERM IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s sperm acrosomal membrane associated protein

42178 SPERM

888 SPERMS

42363 SPERM

(SPERM OR SPERMS)

1845 ACROSOMAL

660210 MEMBRANE

295320 MEMBRANES

742711 MEMBRANE

(MEMBRANE OR MEMBRANES)

110556 ASSOCIATED

888880 ASSOCD

2 ASSOCDS  
 888881 ASSOCD  
 (ASSOCD OR ASSOCDS)  
 924203 ASSOCIATED  
 (ASSOCIATED OR ASSOCD)  
 1739123 PROTEIN  
 1207800 PROTEINS  
 2019719 PROTEIN  
 (PROTEIN OR PROTEINS)  
 L2 1 SPERM ACROSOMAL MEMBRANE ASSOCIATED PROTEIN  
 (SPERM(W) ACROSOMAL(W) MEMBRANE(W) ASSOCIATED(W) PROTEIN)

=> d L2

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2002:183183 CAPLUS  
 DN 136:367041  
 TI SAMP32, a testis-specific, isoantigenic **sperm acrosomal  
 membrane-associated protein**  
 AU Hao, Zhonglin; Wolkowicz, Michael J.; Shetty, Jagathpala; Klotz, Kenneth;  
 Bolling, Laura; Sen, Buer; Westbrook, V. Anne; Coonrod, Scott; Flickinger,  
 Charles J.; Herr, John C.  
 CS Department of Cell Biology, Center for Research in Contraceptive and  
 Reproductive Health, University of Virginia, Charlottesville, VA, 22908,  
 USA  
 SO Biology of Reproduction (2002), 66(3), 735-744  
 CODEN: BIREBV; ISSN: 0006-3363  
 PB Society for the Study of Reproduction  
 DT Journal  
 LA English  
 RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 08:18:36 ON 04 MAY 2005)

FILE 'CAPLUS' ENTERED AT 08:19:07 ON 04 MAY 2005

L1 42 S ISOANTIGENIC  
 L2 1 S SPERM ACROSOMAL MEMBRANE ASSOCIATED PROTEIN

=> s seminal plasma proteins

14279 SEMINAL  
 10 SEMINALS  
 14283 SEMINAL  
 (SEMINAL OR SEMINALS)  
 800534 PLASMA  
 72750 PLASMAS  
 807862 PLASMA  
 (PLASMA OR PLASMAS)  
 1207800 PROTEINS  
 4 PROTEINSES  
 1207804 PROTEINS  
 (PROTEINS OR PROTEINSES)  
 L3 176 SEMINAL PLASMA PROTEINS  
 (SEMINAL(W) PLASMA(W) PROTEINS)

=> s L3 and L1

L4 0 L3 AND L1

=> s L1 and sperm

42178 SPERM  
 888 SPERMS

## 42363 SPERM

(SPERM OR SPERMS)

L5 3 L1 AND SPERM

=&gt; d L5 1-3 ibib,abs

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:183183 CAPLUS

DOCUMENT NUMBER: 136:367041

TITLE: SAMP32, a testis-specific, **isoantigenic****sperm** acrosomal membrane-associated protein

AUTHOR(S): Hao, Zhonglin; Wolkowicz, Michael J.; Shetty, Jagathpala; Klotz, Kenneth; Bolling, Laura; Sen, Buer; Westbrook, V. Anne; Coonrod, Scott; Flickinger, Charles J.; Herr, John C.

CORPORATE SOURCE: Department of Cell Biology, Center for Research in Contraceptive and Reproductive Health, University of Virginia, Charlottesville, VA, 22908, USA

SOURCE: Biology of Reproduction (2002), 66(3), 735-744

CODEN: BIREBV; ISSN: 0006-3363

PUBLISHER: Society for the Study of Reproduction

DOCUMENT TYPE: Journal

LANGUAGE: English

AB To identify novel human **sperm** membrane antigens, we analyzed two-dimensional gels of **sperm** exts. containing hydrophobic proteins that partitioned into Triton X-114. Four protein spots with isoelec. points (pIs) ranging from 4.5 to 5.5 and apparent mol. wts. from 32 to 34 kDa were sequenced by mass spectrometry and found to contain common peptide sequences. Cloning the corresponding cDNA revealed that these protein spots were products of a single gene (SAMP32), encoding a protein of 32 kDa with a predicted pI of 4.57. SAMP32 has a potential transmembrane domain in the carboxyl terminus and is phosphorylated in vivo on serine 256. Northern blotting of eight human tissues and RNA dot blotting of 76 human tissues showed that SAMP32 expression was testis specific. SAMP32 contained an amino terminal domain homologous to the major malarial circumsporozoite surface protein and a domain similar to that of Krp1 from *Schizosaccharomyces pombe* in its carboxyl terminus. The SAMP32 locus consists of seven exons on chromosome 6q15-16.2. Antiserum against recombinant SAMP32 recognized protein spots originally cored from a two-dimensional gel. This antiserum strongly stained the equatorial segment and faintly stained the acrosome cap of ejaculated human spermatozoa by immunofluorescence. Immunoelectron microscopy showed that SAMP32 was associated with the inner acrosomal membrane in the principal and the equatorial segments of the **sperm** acrosome. By immunostaining enzyme-dissociated testicular cells, SAMP32 was localized to Golgi phase round spermatids and subsequent stages of acrosome biogenesis. Recombinant SAMP32 reacted with serum from an infertile man, suggesting that it is **isoantigenic**. Antibodies against recombinant SAMP32 inhibited both the binding and the fusion of human **sperm** to zona-free hamster eggs.

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1976:557795 CAPLUS

DOCUMENT NUMBER: 85:157795

TITLE: Immunochemical studies on some spermatozoal antigens

AUTHOR(S): Torn'ov, A.; Pavlova, S.

CORPORATE SOURCE: Inst. Biol. Pathol. Reprod. Non-Infect. Dis., Sofia, Bulg.

SOURCE: Doklady Bolgarskoi Akademii Nauk (1976), 29(5), 719-22

CODEN: DBANAD; ISSN: 0366-8681

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Bovine **sperm isoantigenic** peptidases were released on incubation in preovulatory follicular fluid. Ejaculated bull **sperm** were incubated in fluid of preovulatory follicles from cows for 4 hr at 39° and the supernatant from 900 g was examined with heifer isoanti-bull **sperm** antiserum and trypsin substrates. Polyacrylamide gel electrophoresis (disc and immunodiffusion) and histochem. staining with a benzoyl-arginine naphthylamide showed that one isoantigen of **sperm** had trypsin-like activity. Incubation did not alter **sperm** motility. Thus, trypsin-active isoantigens are released by live bull **sperm** acrosome and may therefore play a role in fertilization.

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1974:46226 CAPLUS

DOCUMENT NUMBER: 80:46226

TITLE: Role of specific **sperm** antigens in fertilization

AUTHOR(S): Metz, Charles B.

CORPORATE SOURCE: Inst. Mol. Cellul. Evol., Univ. Miami, Coral Gables, FL, USA

SOURCE: Federation Proceedings (1973), 32(10), 2057-64

CODEN: FEPR7; ISSN: 0014-9446

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Rabbit **sperms** pretreated with univalent antisperm fragments (Fab) failed to produce conception. In intravaginal artificial insemination, the **sperm** did not pass through the cervix. Neither did intrauterine or intratubal insemination result in conception. Fab treatment prevented **sperm** passage through the cervix and from the uterus into the Fallopian tubes. It also prevented **sperm** -uterine leukocyte attachment. Attachment of **sperm** to the corona radiata was blocked by antisperm antibody, but the enzymic activity and reproductive function of **sperm** hyaluronidase were inhibited by Fab. Antibody inhibition of hyaluronidase is species- and tissue-specific, indicating that **sperm** hyaluronidase is a cell-specific isoenzyme. **Sperm** hyaluronidase in **isoantigenic** in the rabbit, and the resulting isoantibodies inhibit the reproductive function (cumulus dispersion) of the **sperm** enzyme in vitro and apparently in vivo. In keeping with such isoantigenicity sera from some infertile women inhibit human **sperm** hyaluronidase. This suggests a possible relation to infertility and implies that isoimmunization of the female with species-specific **sperm** hyaluronidase may be an approach to immunological control of fertility.